

AMENDMENTS TO THE SPECIFICATION

Please add the following at page 1, line 5 :

BACKGROUND OF THE INVENTION

Please replace the paragraph at page 1, lines 22-24 with the following:

In all the known FSO systems the receiving telescope for focusing the incoming wavefront on the active device must be as ~~bigger~~big as possible to keep the free space attenuation at a minimum value.

Please replace the paragraph at page 2, lines 14-17:

Finally, combination of the transmitting and the receiving paths can be done also by using two different wavelengths for the two directions and performing the beam-splitting of the full bi-directional path by means of ~~dieroid~~dichroic filters or the like.

Please replace the paragraph at page 2, lines 23-26:

In fact, if one side of the hop has λ_1 for transmission and λ_2 is for reception, ~~in~~ the opposite side shall be inverted. Also the ~~dieroid~~dichroic filter must be different (e.g., long pass and short pass inverted) or with different mounting (e.g.: different mechanical positioning of the Tx and Rx devices).

Please add the following at page 3, line 25:

SUMMARY OF THE INVENTION

Please replace the paragraphs at page 4, lines 3-13:

These and further objects are obtained by a bi-directional telescope for a free space optical communication system ~~according to claim 1 and by a method according to claim 6.~~ Further advantageous features of the present invention are set forth in the respective dependent claims. All the claims are intended to be an integral part of the present description.

In a free space optics telecommunication system according to the present invention, each terminal includes an optical surface (telescope) used both for the transmitting and the receiving path. This is obtained by using a minor part of the optical surface for transmission, leaving the major surface to the reception. Furthermore, according to the invention, the surface exploited for transmitting is off-axis.

Please add the following at page 4, line 17:

BRIEF DESCRIPTION OF THE DRAWINGS

Please add the following at page 5, line 1:

DETAILED DESCRIPTION OF THE EXEMPLARY EMBODIMENTS

Please delete the present Abstract of the Disclosure.

Please add the following new Abstract of the Disclosure:

A bi-directional telescope for a laser on air telecommunication system, the telescope including: a primary optical surface; at least one transmitting device forming at least one transmitting beam impinging against the primary optical surface at an at least one illuminated area, the at least one transmitting beam having a corresponding axis; and a receiving device collecting the power deflected by an optical surface of the primary optical surface into a receiving beam, the receiving beam having an axis. The telescope has an optical surface of the primary optical surface that is larger than the at least one illuminated area and in that the transmitting beam axis does not coincide with the receiving beam axis. A method for receiving and transmitting optical signals through the air by a bi-directional telescope is also described.